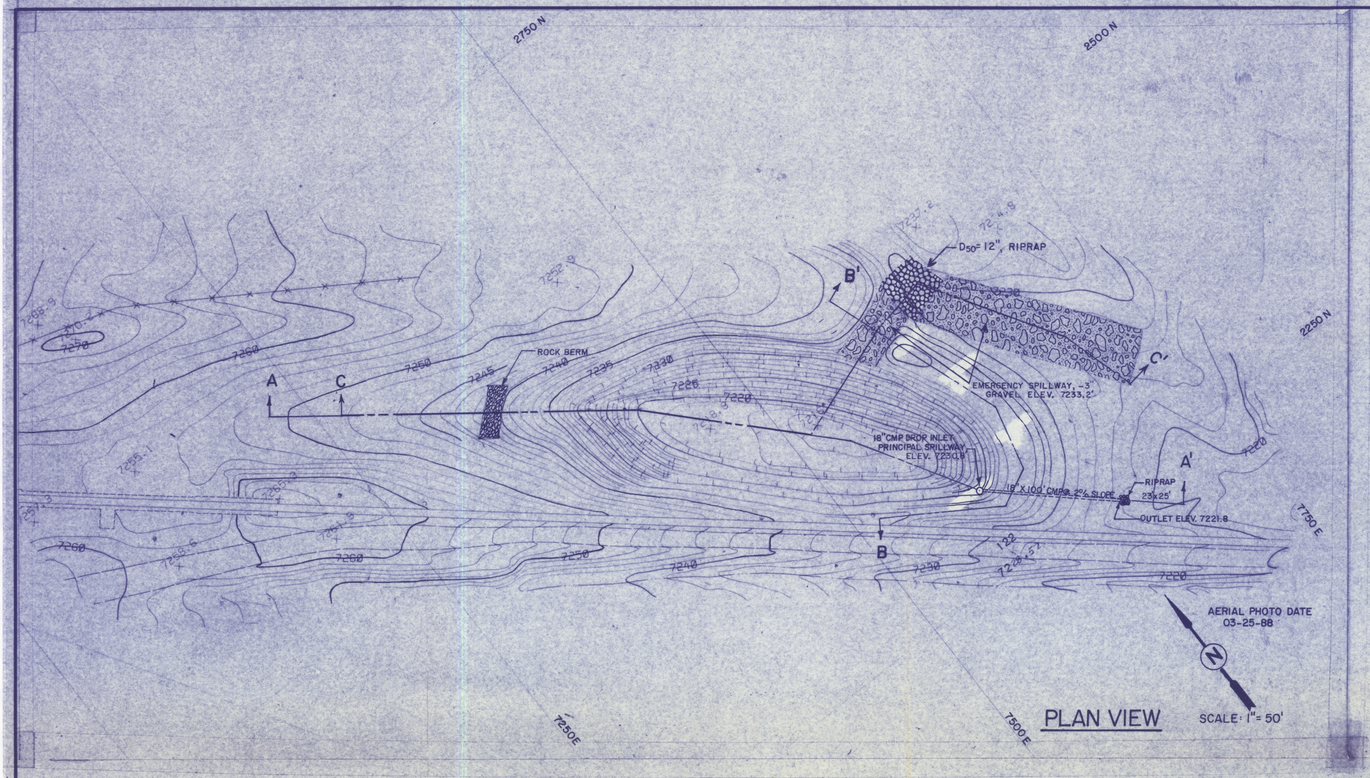
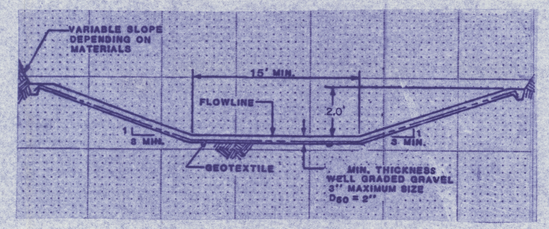


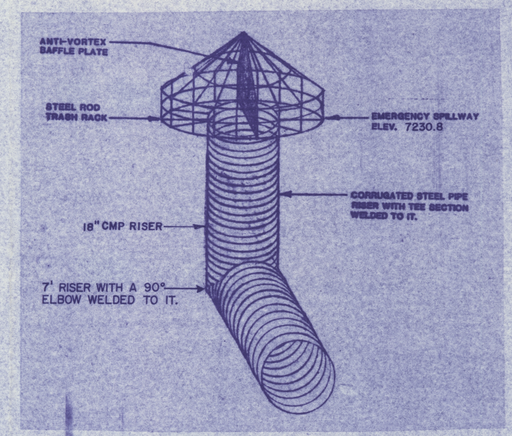
PLAN VIEW

SCALE: 1" = 50'



SECTION OF EMERGENCY SPILLWAY

NOT DRAWN TO SCALE

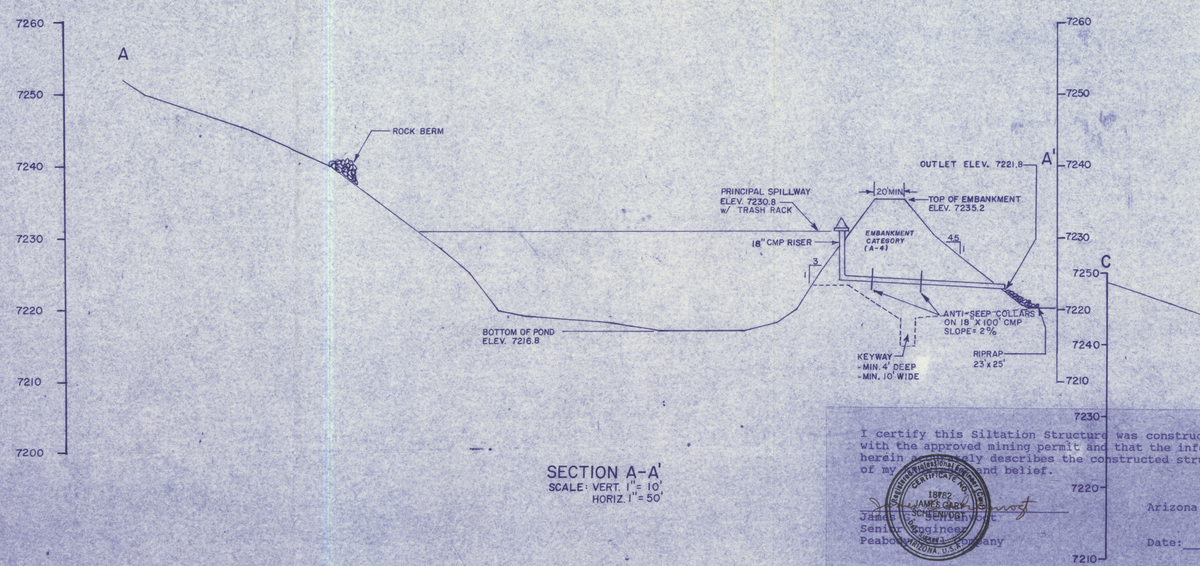


PRINCIPAL SPILLWAY

NOT DRAWN TO SCALE

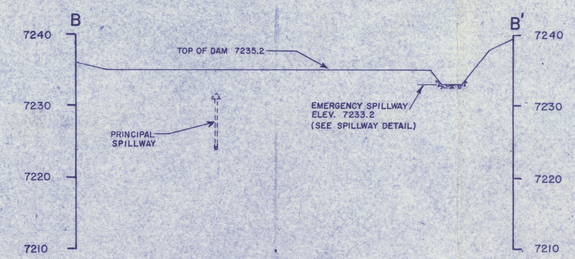
KM-TPB POND AS-BUILT

ELEVATION (FT.-msl)	STAGE (FT.)	AREA (ACRES)	CAP. (AC.-FT.)	TOT. CAP. (AC.-FT.)	DESCRIPTION
7216.80	0.00	0.00	0.00	0.00	BOTTOM OF POND
7218.00	1.20	0.09	0.05	0.05	
7220.00	3.20	0.20	0.29	0.34	
7222.00	5.20	0.25	0.45	0.79	
7224.00	7.20	0.31	0.56	1.35	
7226.00	9.20	0.38	0.69	2.04	
7228.00	11.20	0.44	0.82	2.86	
7230.00	13.20	0.51	0.95	3.81	
7230.80	14.00	0.54	0.42	4.23	PRINCIPAL SPILLWAY
7232.00	15.20	0.58	0.67	4.90	
7233.20	16.40	0.62	0.72	5.62	EMERGENCY SPILLWAY
7234.00	17.20	0.66	0.51	6.14	
7235.20	18.40	0.70	0.82	6.95	TOP OF EMBANKMENT



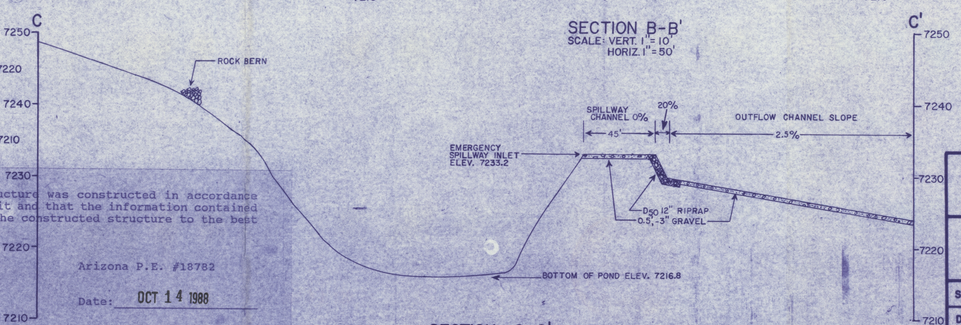
SECTION A-A'

SCALE: VERT. 1" = 10'
HORIZ. 1" = 50'



SECTION B-B'

SCALE: VERT. 1" = 10'
HORIZ. 1" = 50'



SECTION C-C'

SCALE: VERT. 1" = 10'
HORIZ. 1" = 50'

I certify this Siltation Structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my [illegible] and belief.

Arizona P.E. #18782

Date: OCT 14 1988

James [illegible]
Senior Engineer
Peabody Coal Company

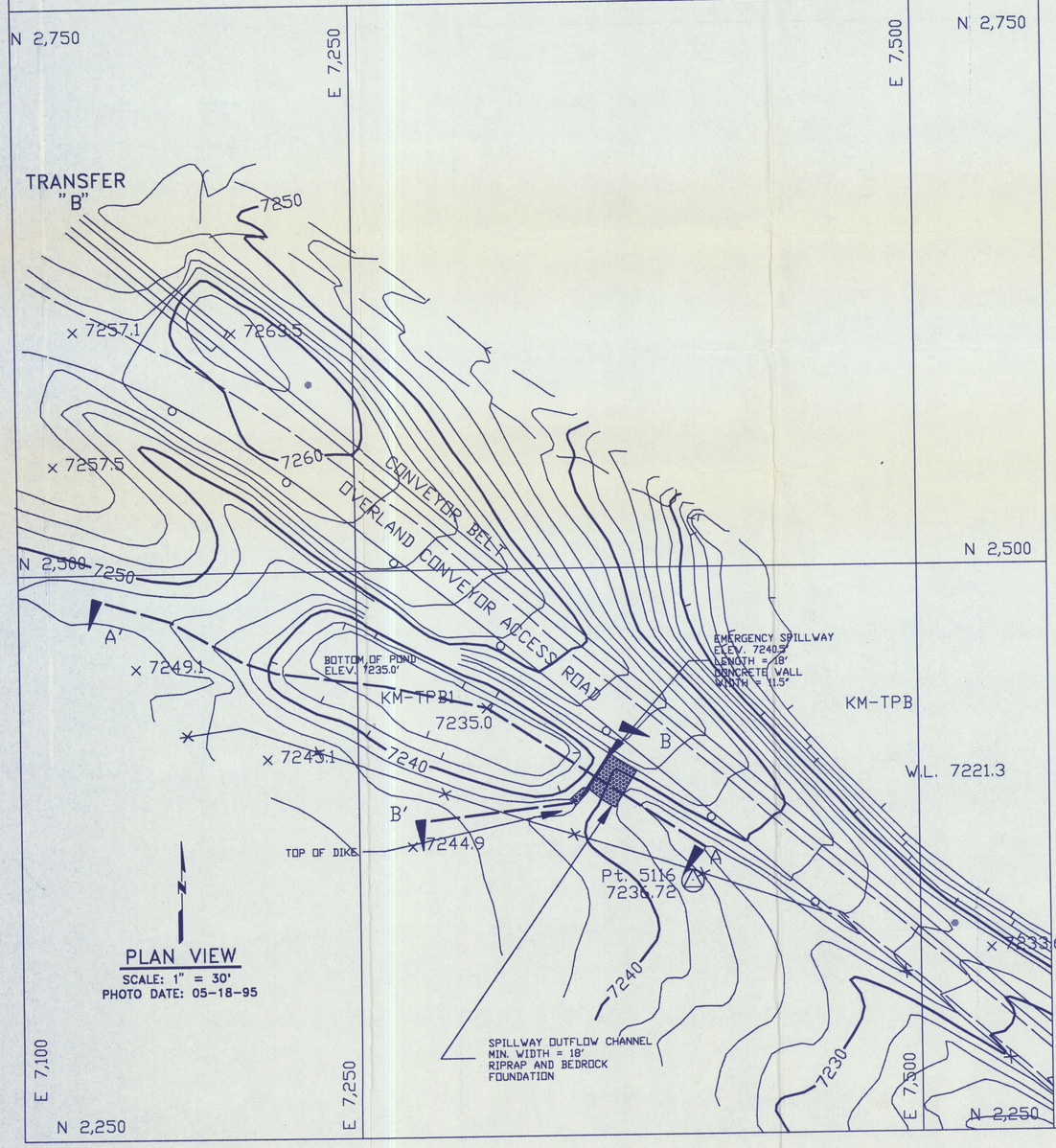
PEABODY COAL COMPANY
BLACK MESA — KAYENTA MINE
1300 SOUTH YALE FLAGSTAFF, ARIZONA 86001

KM-TPB POND
(AS-BUILT)

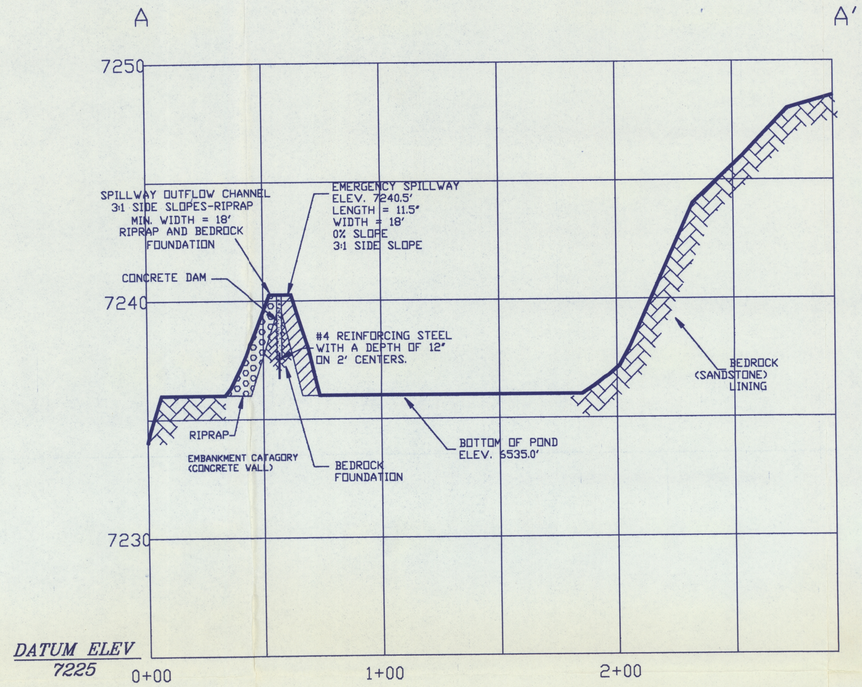
SCALE: AS SHOWN	DRAWN BY: C.C.H.
DATE: 10-14-88	DRAWING NO:
REVISION:	APPROVED BY: J.G.S.

KM-TPB1 POND STAGE CAPACITY

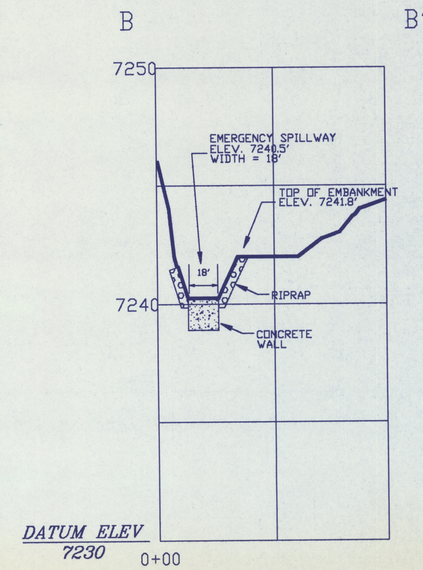
ELEV. (FT.-MSL)	STAGE (FT.)	AREA (ACRES)	CAP. (AC.-FT.)	TOT. CAP. (AC.-FT.)	DESCRIPTION
7235.0	0.00	0.00	0.00	0.00	BOTTOM OF POND
7236	1.00	0.06	0.02	0.02	
7237	2.00	0.08	0.07	0.09	
7238	3.00	0.10	0.09	0.18	
7239	4.00	0.11	0.11	0.29	
7240	5.00	0.13	0.12	0.41	
7240.5	5.50	0.14	0.07	0.48	EMERGENCY SPILLWAY
7241	6.00	0.15	0.07	0.55	
7241.3	6.30	0.15	0.05	0.60	TOP OF EMBANKMENT



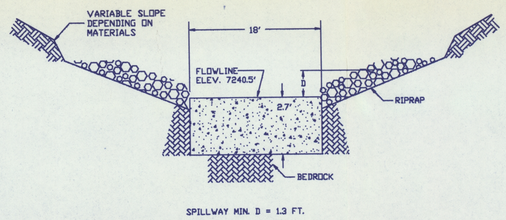
PLAN VIEW
SCALE: 1" = 30'
PHOTO DATE: 05-18-95



SECTION A - A'
SCALE: HORIZ. 1"=30'
VERT. 1"=3'



SECTION B - B"
SCALE: HORIZ. 1"=30'
VERT. 1"=3'



KM-TPB1 POND
TYPICAL SECTION OF EMERGENCY SPILLWAY
(NOT DRAWN TO SCALE)

I certify that this siltation structure was constructed in accordance with the approved mining permit and that the information contained herein accurately describes the constructed structure to the best of my knowledge and belief.

ENGINEER'S CERTIFICATION

Registered Professional Engineer
CERTIFICATE NO.
18782
JAMES GARY SCHLENKER
ARIZONA U.S.A.

JAMES G. SCHLENKER
Senior Engineer
Peabody Western Coal Company

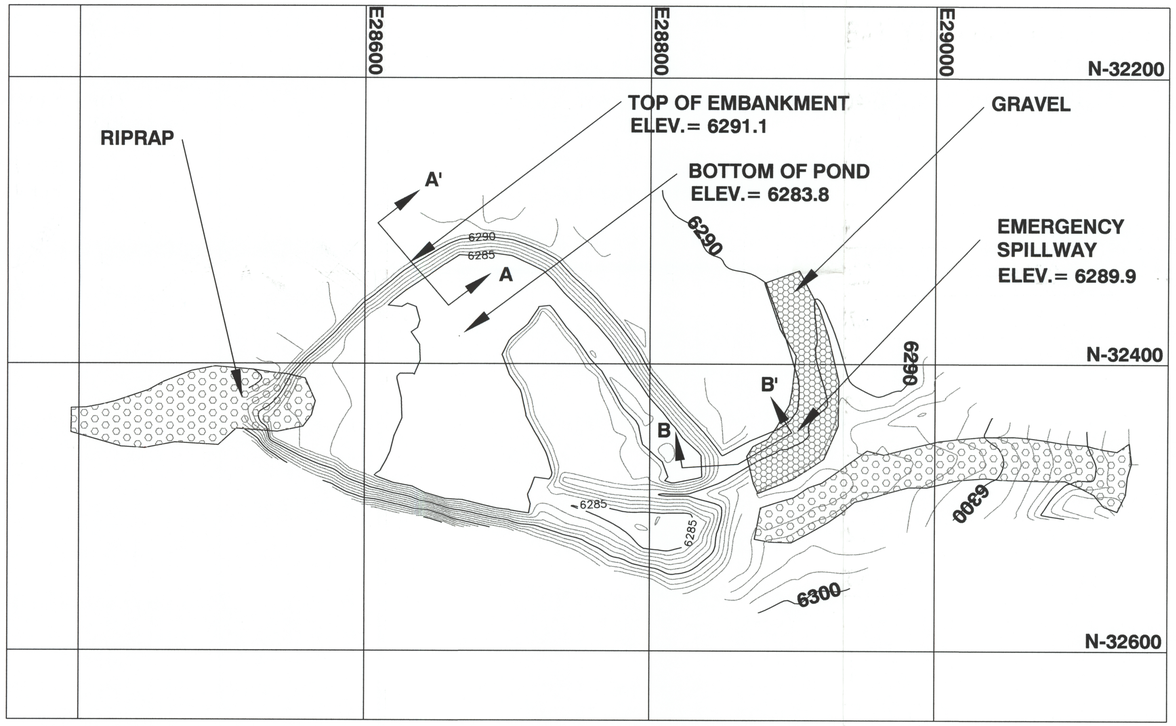
ARIZONA P.E. 18782
Date: JUL 21 1995

REVISIONS		
DATE	CHK'D	DESCRIPTION

KM-TPB1 SEDIMENTATION STRUCTURE
(AS-BUILT)

KAYENTA MINE
PEABODY WESTERN COAL COMPANY
1300 SOUTH YALE ST. FLAGSTAFF, ARIZONA 86001

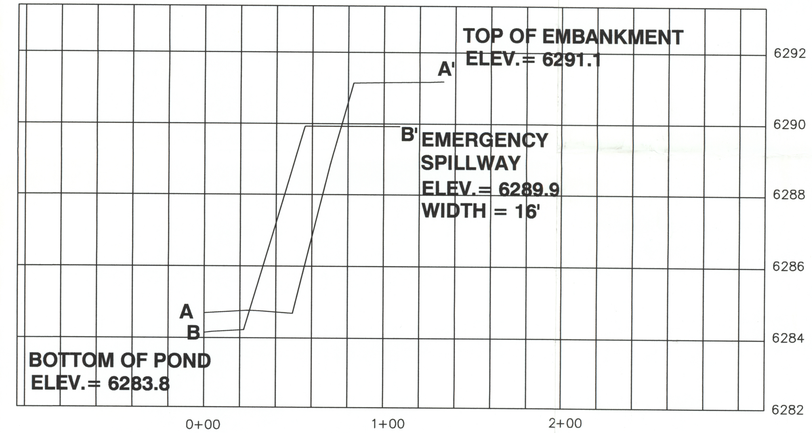
DESIGNED BY: PWCC	SCALE: 1"=30'
DRAWN BY: PWCC	DRAWING DATE: 07-20-95
CHECKED BY: JGS	PHOTO DATE: 05-18-95
CONTOUR INTERVAL: 2 FT.	DWG FILE: KM-TPB1.DWG



MW-A POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	CAPACITY (ac-ft)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6283.8	0	0	0	0	BOTTOM OF POND
6284.0	0.2	0.01	0.00	0.00	
6285.0	1.2	0.41	0.21	0.21	
6286.0	2.2	0.62	0.52	0.73	
6287.0	3.2	0.75	0.69	1.41	
6288.0	4.2	0.93	0.84	2.25	
6289.0	5.2	0.98	0.96	3.21	
6289.9	6.1	1.02	0.90	4.11	EMERGENCY SPILLWAY
6290.0	6.2	1.03	0.10	4.21	
6291.1	7.3	1.09	1.17	5.37	TOP OF EMBANKMENT

SECTION A–A' and B–B'



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

N

PLAN VIEW

SCALE: 1" = 50'
SURVEY DATE: 05–17–04

C.I. = 1'

I CERTIFY THAT THIS SILTATION STRUCTURE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED MINING PERMIT AND THAT THE INFORMATION CONTAINED HEREIN ACCURATELY DESCRIBES THE CONSTRUCTED STRUCTURE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ENGINEER'S CERTIFICATION

RANDOLPH S. LEHN — ARIZONA P.E. 26858

PEABODY WESTERN COAL COMPANY — DATE: 1-31-05

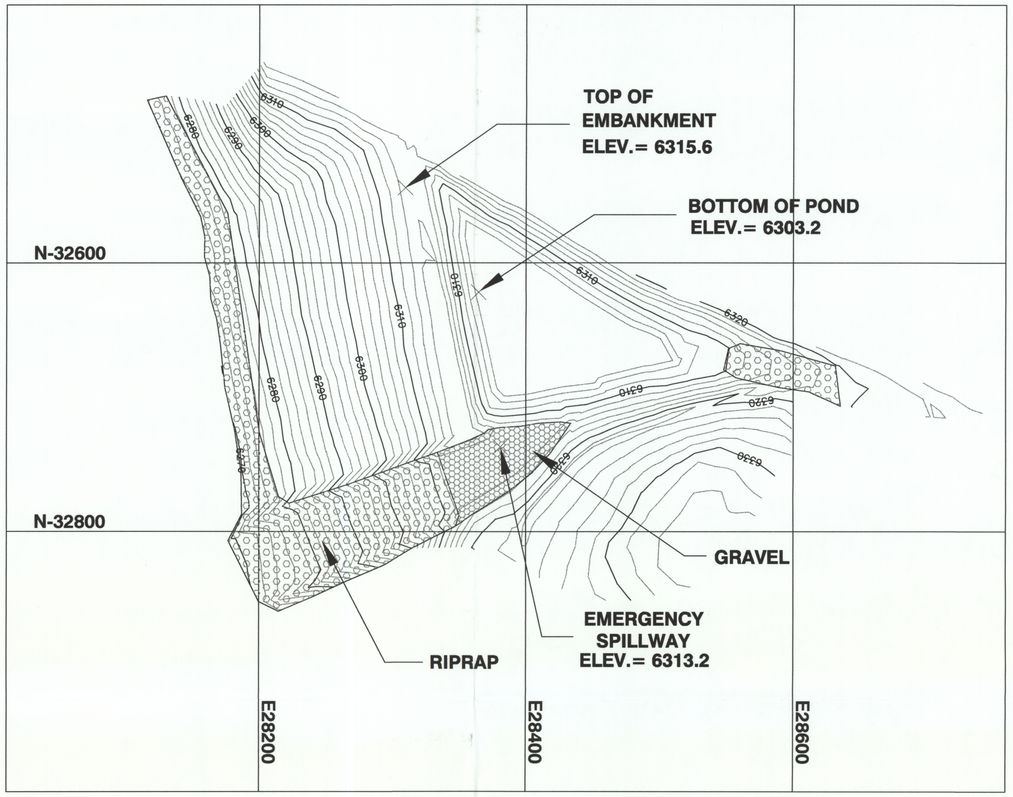
FEB 2005 APPROVED

REVISIONS		
DATE	CHK'D	DESCRIPTION

MW–A POND
AS–BUILT

BLACK MESA MINE
PEABODY WESTERN COAL COMPANY
PO BOX 650 KAYENTA, ARIZONA 86033

DESIGNED BY: PWCC	SCALE: AS SHOWN
DRAWN BY: RL	DRAWING DATE: 01–31–05
CHECKED BY: RL	SURVEY DATE: 05–17–04
CONTOUR INT.: 1'	DWG FILE: MW–A_AB_2005



MW-B POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	CAPACITY (ac-ft)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6303.2	0.0	0.00	0.00	0.00	BOTTOM OF POND
6304.0	0.8	0.22	0.09	0.09	
6306.0	2.8	0.28	0.50	0.59	
6308.0	4.8	0.34	0.62	1.21	
6310.0	6.8	0.42	0.76	1.97	
6312.0	8.8	0.49	0.91	2.88	
6313.2	10.0	0.54	0.62	3.50	EMERGENCY SPILLWAY
6314.0	10.8	0.58	0.45	3.95	
6315.6	12.4	0.65	0.98	4.93	TOP OF EMBANKMENT

N

PLAN VIEW

SCALE: 1" = 60'
SURVEY DATE: 09-16-99

C.I. = 2'

I CERTIFY THAT THIS SILTATION STRUCTURE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED MINING PERMIT AND THAT THE INFORMATION CONTAINED HEREIN ACCURATELY DESCRIBES THE CONSTRUCTED STRUCTURE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOV 1999
APPROVED

ENGINEER'S CERTIFICATION

RANDOLPH S. LEHN
PEABODY WESTERN COAL COMPANY

ARIZONA P.E. 26858
DATE: OCT 29 1999

OCT 29 1999

REVISIONS		
DATE	CHK'D	DESCRIPTION

MW-B POND
AS-BUILT

BLACK MESA MINE
PEABODY WESTERN COAL COMPANY
PO BOX 605 KAYENTA, ARIZONA 86033

DESIGNED BY: PWCC	SCALE: AS SHOWN
DRAWN BY: CI	DRAWING DATE: 09-17-99
CHECKED BY: RL	SURVEY DATE: 09-16-99
CONTOUR INT.: 2'	DWG FILE: MW-B A..9.DWG